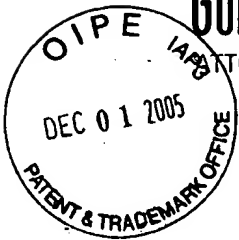


TFW

**Sterne Kessler
Goldstein Fox**
ATTORNEYS AT LAW



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Cornwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbala
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Donald J. Featherstone
Timothy J. Shea, Jr
Michael V. Messinger

Judith U. Kim
Patrick E. Garrett
Jeffrey T. Helvey
Heidi L. Kraus
Eldora L. Ellison
Thomas C. Fiala
Donald R. Banowitz
Peter A. Jackman
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Brian J. Del Buono
Virgil Lee Beaston
Theodore A. Wood
Elizabeth J. Haanes
Joseph S. Ostroff
Frank R. Cottingham
Rae Lynn P. Guest

Daniel A. Klein
Jason D. Eisenberg
Michael D. Specht
Tracy L. Muller
Jon E. Wright
LuAnne M. DeSantis
Ann E. Summerfield
Helene C. Carlson
Cynthia M. Bouchez
Timothy A. Doyle
Gabby L. Longworth
Lori A. Gordon
Nicole D. Dretar
Ted J. Ebersole
Laura A. Vogel
Bryan S. Wade
Aaron L. Schwartz
Shannon A. Carroll*

Wesley W. Jones*
Matthew E. Kelley*
Michelle K. Holoubek*
Marsha A. Rose*

Registered Patent Agents*
Karen R. Markowitz
Nancy J. Leith
Matthew J. Dowd
Katrina Yujian Pei Quach
Bryan L. Skelton
Robert A. Schwartzman
Teresa A. Colella
Victoria S. Rutherford
Simon J. Elliott
Julie A. Heider
Mita Mukherjee
Scott M. Woodhouse

Christopher J. Walsh
Liliana Di Nola-Baron
Peter A. Socarras
Jeffrey Mills
Danielle L. Letting

Of Counsel
Kenneth C. Bass III
Marvin C. Guthrie

*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

December 1, 2005

WRITER'S DIRECT NUMBER:
(202) 772-8674
INTERNET ADDRESS:
MLEE@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

**Mail Stop Amendment
Art Unit 2687**

Re: U.S. Utility Patent Application
Application No. 09/550,644; Filed: April 14, 2000
For: **Method and System For Down-Converting An Electromagnetic
Signal, Transforms For Same, And Aperture Relationships**
Inventors: Sorrells *et al.*
Our Ref: 1744.0010009

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Ninth Supplemental Information Disclosure Statement;
2. Form PTO-1449 listing twenty-four (24) documents; and
3. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
December 1, 2005
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,


STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

MQL/VLB:sjc
Enclosures

470765_1.DOC



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Sorrells *et al.*

Appl. No.: 09/550,644

Filed: April 14, 2000

For: **Method and System for Down-
Converting an Electromagnetic
Signal, Transforms for Same, and
Aperture Relationships**

Confirmation No.: 9317

Art Unit: 2687

Examiner: Bhattacharya, Sam

Atty. Docket: 1744.0010009

Ninth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Ninth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Eighth Supplemental Information Disclosure Statement filed on August 30, 2005 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AA69-AD69 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/855,851, filed May 16, 2001, entitled "Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals," directed to related subject matter.

Documents AE69-AG69 were cited in an Office Action in related U.S. Patent Application No. 10/315,174, filed December 10, 2002, entitled "Reducing DC Offsets Using Spectral Spreading," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,999,561 and 6,686,879, which have already been cited in the present application.

Documents AH69, AI69, and AA70 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/359,636, filed February 7, 2003, entitled "Integrated Frequency Translation and Selectivity," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,126,682; 5,926,054; 6,049,706; 6,421,534; and 6,560,301, which have already been cited in the present application.

Documents AB70-AF70 were cited in an Office Action in related U.S. Patent Application No. 10/197,255, filed July 18, 2002, entitled "Networking Methods and Systems," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,850,742, which has already been cited in the present application.

Documents AG70 is a co-owned patent which is directed to related subject matter.

Documents AH70 and AI70 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods And Apparatuses

Relating To A Universal Platform Module And Enabled By Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,844,868, which has already been cited in the present application.

Documents AA71-AF71 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/961,272, filed October 12, 2004, entitled "Apparatus, System, And Method For Down-Converting And Up-Converting Electromagnetic Signals," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,853,690, which has already been cited in the present application.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below:

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed before the mailing of a first Office Action on the merits. No statement or fee is required.

- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of _____ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.

Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance.
1138 OG 37, 38.
- ☐ 6. A concise explanation of the relevance of the non-English language document appears below in accordance with 37 C.F.R. § 1.98(a)(3):

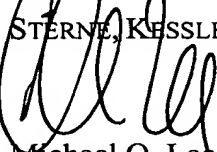
- ☒ 7. In accordance with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents cited on the attached Form PTO-1449 are not enclosed.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- ☒ 9. It is expected that the examiner will review the prosecution and cited art in the parent application nos. 09/521,879, filed March 9, 2000, 09/293,342, filed April 16, 1999 (now U.S. Pat. No. 6,687,493), and 09/176,022, filed October 21, 1998 (now U.S. Pat. No. 6,061,551), in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution histories has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michael Q. Lee
Attorney for Applicants
Registration No. 35,239

Date: December 1, 2005

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

466534_1.DOC



FORM PTO-1449

**NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0010009APPLICATION NO.
09/550,644FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
April 14, 2000ART UNIT
2687**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA69	6,882,194 B2	04/2005	Belot <i>et al.</i>			
	AB69	6,892,062 B2	05/2005	Lee <i>et al.</i>			
	AC69	6,917,796 B2	07/2005	Setty <i>et al.</i>			
	AD69	6,920,311 B2	07/2005	Rofougaran <i>et al.</i>			
	AE69	5,062,122	10/1991	Pham <i>et al.</i>			
	AF69	6,182,011 B1	01/2001	Ward			
	AG69	6,639,939 B1	10/2003	Naden <i>et al.</i>			
	AH69	5,787,125	07/1998	Mittel			
	AI69	5,878,088	03/1999	Knutson <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

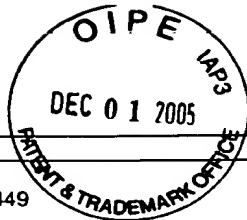
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0010009APPLICATION NO.
09/550,644FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
April 14, 2000ART UNIT
2687

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA70	6,215,828	04/2001	Signell <i>et al.</i>			
	AB70	5,703,584	12/1997	Hill			
	AC70	5,887,001	03/1999	Russell			
	AD70	6,298,065 B1	10/2001	Dombkowski <i>et al.</i>			
	AE70	2002/0080728 A1	06/2002	Sugar <i>et al.</i>			
	AF70	2002/0163921 A1	11/2002	Ethridge <i>et al.</i>			
	AG70	6,963,734 B2	11/2005	Sorrells <i>et al.</i>			
	AH70	6,005,506	12/1999	Bazarjani <i>et al.</i>			
	AI70	6,438,366 B1	08/2002	Lindfors <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0010009APPLICATION NO.
09/550,644FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
April 14, 2000ART UNIT
2687

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA71	2001/0015673 A1	08/2001	Yamashita <i>et al.</i>			
	AB71	2003/0045263 A1	03/2003	Wakayama <i>et al.</i>			
	AC71	5,196,806	03/1993	Ichihara			
	AD71	5,410,195	04/1995	Ichihara			
	AE71	6,404,823 B1	06/2002	Grange <i>et al.</i>			
	AF71	6,618,579 B1	09/2003	Smith <i>et al.</i>			
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.